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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/772,236	02/06/2004	Masayuki Takagi	XA-10032	6886	
• • •	7590 02/20/200° CKBRIDGE PC	7	EXAMINER		
1751 PINNACLE DRIVE			LE, HUNG CHARLIE		
SUITE 500 MCLEAN, VA 22102-3833			ART UNIT	PAPER NUMBER	
,			3663		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	02/20/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/772,236	TAKAGI, MASAYUR	KI
Office Action Summary	Examiner	Art Unit	
	Hung C. Le	3663	
The MAILING DATE of this communication ap	pears on the cover sheet v	vith the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this com ABANDONED (35 U.S.C. § 133).	•
Status			
<ol> <li>Responsive to communication(s) filed on 21 A</li> <li>This action is FINAL.</li> <li>Since this application is in condition for allowed closed in accordance with the practice under A</li> </ol>	s action is non-final. ince except for formal ma		merits is
Disposition of Claims		·	
4) ⊠ Claim(s) 1 - 23 is/are pending in the application 4a) Of the above claim(s) 8 is/are withdrawn from 5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1 - 7, 9 - 23 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or	om consideration.		
Application Papers	•		
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 06 February 2004 is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	re: a) $\square$ accepted or b) $\square$ drawing(s) be held in abeyaction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFF	R 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in prity documents have bee ou (PCT Rule 17.2(a)).	Application No n received in this National S	itage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 11/22/05.	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

## **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/02/2006 has been entered.

# Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 10, 17 &18 are rejected under 35 U.S.C. 112, second paragraph, as being
indefinite for failing to particularly point out and distinctly claim the subject matter
which applicant regards as the invention.

With respect to claim 10:

Claim 10 recites the limitation "said part" in line 3. There is insufficient antecedent

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basis for this limitation in the claim.

Claim 17 recites the limitation "said part" in line 12. There is insufficient antecedent basis for this limitation in the claim.

With respect to claim 18:

Claim 18 recites the limitation "said part" in line 3. There is insufficient antecedent basis for this limitation in the claim.

# Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 23 (Claim 8 was cancelled by applicant) are rejected under 35 U.S.C. 103(a) as being unpatentable over Hasegawa (US 6,351,886 B1) in view of Takahashi et al. (4, 320,824). Hasegawa discloses applicant claims limitations except for forming holes (1B, Fig. 3) and groove (47A, Fig. 3) through the shaft portion which are taught by Takahashi et al. (see Figs. 1 3).

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With respect to claims 1, 9 & 17:

Hasewaga discloses: A method for manufacturing a clutch housing, comprising: a first step of forming a work into a pre-product (Steps 1 – 6, Fig. 1) having a shaft (middle part of step 6, Fig. 1) portion and an outer drum portion far left & right portion in step 6) enclosing the shaft portion integrally with the shaft portion (see FIG. 1);

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a second step of working the pre-product (Steps 6 & 7); including forming a hole in said shaft portion, said hole extending substantially perpendicular to an axial direction of said shaft portion; and

a third step of providing a spline (lower left & right part starting from step 6, fig.1) on an inner periphery of the outer drum portion by flow forming (steps 11 – 13), and forming the pre-product into an almost completed product (step 14, Fig. 1), wherein in the first step, an outer peripheral cylindrical portion of the outer drum portion is formed while being offset in an axial direction (see starting from step 6) with respect to the shaft portion so that it is not opposite, in a radial direction, a region where said hole is to be formed in the second step.

While patent drawings are not drawn to scale, relationships clearly shown in the drawings of a reference patent cannot be disregarded in determining the patentability of claims. See <u>In re Mraz</u>, 59 CCPA 866, 455 F.2d 1069, 173 USPQ 25 (1972).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method as disclosed by Hasewaga by the teaching of Takahashi et al. for lubricating and maintenance advantages (Takahashi et al, col 1, lines 45+) as such modification is no more than the use of a well known expedient within the field.

With respect to claims 3, 4 & 13:

Hasewaga further discloses: a step of surface finishing is conducted after the third step (see steps 15, 16 & 17 of Fig. 1).

With respect to claims 5, 15, 20 & 22:

Hasewaga further discloses: the first step is conducted by hot forging (Col. 11, Lines 14 - 15), and the third step is conducted by cold forging (Col. 12, Line 3).

With respect to claims 6, 7 & 14:

Hasewaga further discloses: the step of surface finishing includes grinding (See step 17 of FIG. 1).

With respect to claims 16, 21 & 23:

Hasewaga further discloses: the disk portion becomes substantially perpendicular to the axis of the shaft portion and the outer peripheral cylindrical portion becomes substantially parallel to the axis of the shaft portion (see step 18

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of Fig. 1).

et al. (see Figs. 1 - 3).

With respect to claims 2, 10, 11, 12, 18 & 19:

Hasegawa discloses applicant claims limitations except for forming holes (1B, Fig. 3) and groove (47A, Fig. 3) through the shaft portion which are taught by Takahashi

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method as disclosed by Hasewaga by the teaching of Takahashi et al. for lubricating and maintenance advantages (Takahashi et al, col 1, lines 45+) as such modification is no more than the use of a well known expedient within the field.

6. The statements of intended use or field of use, e.g., "wherein, whereby, etc..." clause provides language that suggests or makes optional but does not require steps to be performed or does not limit the scope of a claim or claim limitation (MPEP § 2106(II,C)). Accordingly, the metes and bound of the claim can not be ascertained by one having ordinary skill in the art.

## Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung C. Le whose telephone number is

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571-272-8757. The examiner can normally be reached on M-F: 07:30 am - 05:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information For published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SUPERVISORY PATENT EXAMINER

HCL 02/10/07